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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/15/2004

ROCKWELL COLLINS, INC. Attention: Kyle Eppele 400 Collins Rd. NE M/S 124-323 Cedar Rapids, IA 52498 EXAMINER

CHOWDHURY, TARIFUR RASHID

ART UNIT

PAPER NUMBER

2871

**DATE MAILED: 03/15/2004** 

1	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	09/770 854	01/26/2001	Paul R Nemeth	99CR065/KE	7848

TITLE OF INVENTION: PHOTO ABLATION TO RESOLVE "BRIGHT ON" PIXEL DEFECTS IN A NORMALLY WHITE LCD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/15/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

03/15/2004

ROCKWELL COLLINS, INC. Attention: Kyle Eppele 400 Collins Rd. NE M/S 124-323 Cedar Rapids, IA 52498

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,854	01/26/2001	Paul R. Nemeth	99CR065/KE	7848

TITLE OF INVENTION: PHOTO ABLATION TO RESOLVE "BRIGHT ON" PIXEL DEFECTS IN A NORMALLY WHITE LCD

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nonprovisional	NO	\$1330	\$300	\$1630	06/15/2004
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	]	
CHOWDHURY, TARIFUR RASHID 2871			349-192000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).      Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.      "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page names of up to 3 registered patent agents OR, alternatively, (2) the name firm (having as a member a registered agent) and the names of up to 2 regis attorneys or agents. If no name is lists will be printed.	attorneys or 1 of a single l attorney or 2 stered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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•				
Please check the appropriate assignee category or cat	egories (will not be printed on the patent);	individual	□ corporation or other private group entity	governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.	
Advance Order - # of Copies	The Director is he Deposit Account Nur	ereby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this	overpayment, to form).
Director for Patents is requested to apply the Issue Fe	ee and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified abo	ve.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if rec other than the applicant; a registered attorney or interest as shown by the records of the United State	agent; or the assignee or other party in			
This collection of information is required by 37 C obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, includin completed application form to the USPTO. Time case. Any comments on the amount of time youggestions for reducing this burden, should be separated and Trademark Office, U.S. Departme 22313-1450. DO NOT SEND FEES OR COMISEND TO: Commissioner for Patents, Alexandria,	on require to complete this form and/or ent to the Chief Information Officer, U.S. int of Commerce, Alexandria, Virginia PLETED FORMS TO THIS ADDRESS.		,	
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/770,854	01/26/2001	Paul R. Nemeth	99CR065/KE	99CR065/KE 7848	
7590 03/15/2004		EXAMINER			
ROCKWELL CO			CHOWDHURY, T.	ARIFUR RASHID	
Attention: Kyle Epp 400 Collins Rd. NE			ART UNIT	PAPER NUMBER	
M/S 124-323	•		2871		
Cedar Rapids, IA 52498			DATE MAILED: 03/15/2004		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 136 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 136 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			<sup>ر</sup> بر
	Application No.	Applicant(s)	
	09/770,854	NEMETH, PAUL R.	
Notice of Allowability	Examiner	Art Unit	
	Tarifur R Chowdhury	2871	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1.   This communication is responsive to   APPEAL BRIEF FILE	<u>D ON 11/21/03</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .			
3. $\boxtimes$ The drawings filed on <u>11 May 2001</u> are accepted by the Ex	aminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority una a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the other of timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submited in the international properties of the priority document in the properties of the priority document in the international properties of the priority document in the priority document	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER as reason(s) why the oath or declara at be submitted. on's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL resist of BIOLOGICAL MATERIAL resists.	national stage applical complying with the reconstruction is deficient.  948) attached office action of the dolon in the front (not the dolon).	quirements OTICE OF
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5.  Notice of Informal P 6. Interview Summary Paper No./Mail Dat 8), 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	,

Application/Control Number: 09/770,854 Page 2

Art Unit: 2871

### Allowable Subject Matter

1. Claims 1-20 are allowed.

- 2. The following is an examiner's statement of reasons for allowance:
- 3. The prior arts of record do not anticipate or render obvious to one skilled in the art a method and an apparatus for repairing defect in a normally white liquid crystal display wherein the apparatus comprising pixel defect location means for identifying a location of a defective pixel and ablation means for ablating a portion of a color filter corresponding to the location of the defective pixel, the ablating means discoloring the color filter (darkening beyond grey) at the location.
- 4. USPAT 5,926,246 and USPAT 5,142,386 (Ishihara) disclose a method for repairing defects in a liquid crystal display wherein first a pixel defect is located and then burning/blackening is done by focusing a laser the defective pixel and thus repairing the defect. Specially USPAT 5,142,386 utilizes a brute force ablation technique which burns the color filter and the liquid crystal cell to cause the pixel to have a grey color, preferably a mid point between white and black. Further, Ishihara does not teach or suggest discoloring the color filter without damaging a glass substrate by disclosing that the laser is provided through the substrates and the filter to reach electrodes. The newly cited reference (JP-9-152568) discloses a defect correction method of liquid crystal display element formed on TFT substrate, color filter substrates-involves etching defective portion of thin film by ablation phenomenon or by optical decomposition reaction and then forming new films in those areas but fail to teach or suggest alone or in combination the claimed invention.

Art Unit: 2871

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC March 09, 2004 AKE OF R. CHOWDHURY